

37. **(Amended)** The method of claim 32, wherein said binding of the polypeptide is detected by use of an assay for human galactosyltransferase-1 activity.

41. **(Amended)** The method of claim 38 or 39, wherein said binding of the polypeptide is detected by use of an assay for human galactosyltransferase-1 activity.

Please add new claims 49-56 as follows:

49. **(New)** A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:2, the method comprising:

- a) contacting a cell expressing said polypeptide with a test compound under conditions suitable for binding to said polypeptide; and
- b) determining whether said polypeptide binds to said test compound by detecting a labeled polypeptide or a labeled test compound in a complex.

50. **(New)** A method for identifying a compound which binds to a polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2 and retains a human galactosyltransferase-1 activity, the method comprising:

- a) contacting a cell expressing said polypeptide with a test compound under conditions suitable for binding to said polypeptide; and
- b) determining whether said polypeptide binds to said test compound by detecting a labeled polypeptide or a labeled test compound in a complex.

51. **(New)** A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:2, the method comprising:

- a) contacting said polypeptide with a test compound under conditions suitable for binding to said polypeptide; and
- b) determining whether said polypeptide binds to said test compound by detecting a labeled polypeptide or a labeled test compound in a complex.

52. **(New)** A method for identifying a compound which binds to a polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2 and retains a human galactosyltransferase-1 activity, the method comprising:

- a) contacting said polypeptide with a test compound under conditions suitable for binding to said polypeptide; and
- b) determining whether said polypeptide binds to said test compound by detecting a labeled polypeptide or a labeled test compound in a complex.

53. **(New)** A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:2, the method comprising:

- a) contacting a cell expressing said polypeptide with a test compound under conditions suitable for binding to said polypeptide;
- b) detecting the activity of said polypeptide in the presence and in the absence of said compound; and
- c) determining whether said polypeptide binds to said test compound by detecting a modulation in the activity of said polypeptide in the presence of said compound.

54. **(New)** A method for identifying a compound which binds to a polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2 and retains a human galactosyltransferase-1 activity, the method comprising:

- a) contacting a cell expressing said polypeptide with a test compound under conditions suitable for binding to said polypeptide;
- b) detecting the activity of said polypeptide in the presence and in the absence of said compound; and
- c) determining whether said polypeptide binds to said test compound by detecting a modulation in the activity of said polypeptide in the presence of said compound.

55. **(New)** A method for identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:2, the method comprising:

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- a) contacting said polypeptide with a test compound under conditions suitable for binding to said polypeptide;
- b) detecting the activity of said polypeptide in the presence and in the absence of said compound; and
- c) determining whether said polypeptide binds to said test compound by detecting a modulation in the activity of said polypeptide in the presence of said compound.

56. (New) A method for identifying a compound which binds to a polypeptide comprising an amino acid sequence that is at least 95% identical to the amino acid sequence of SEQ ID NO:2 and retains a human galactosyltransferase-1 activity, the method comprising:

- a) contacting said polypeptide with a test compound under conditions suitable for binding to said polypeptide;
- b) detecting the activity of said polypeptide in the presence and in the absence of said compound; and
- c) determining whether said polypeptide binds to said test compound by detecting a modulation in the activity of said polypeptide in the presence of said compound.

REMARKS

Claims 32-48 were pending in the application. Claims 46-48 have been cancelled, without prejudice, claims 37 and 41 have been amended, and new claims 49-56 have been added. Accordingly, after the amendments presented herein have been entered, claims 32-45 and 49-56 will remain pending. For the Examiner's convenience all of the pending claims are set forth herein in Appendix A.

Support for the new claims can be found throughout the specification and in the claims as originally filed. Specifically, support for claims 49 through 52 can be found at page 52, lines 8-11 and at page 27, lines 7-15 of the specification. Support for claims 53 through 56 can be found at page 50, line 34 through page 51, line 2 and at page 27, lines 7 through 15 of the specification.

No new matter has been added. Any cancellation of the claims should in no way be construed as an acquiescence to any of the Examiner's rejections and was done solely